

# 29<sup>th</sup> Scientific Meeting of the SoHT

June 4 - 6, 2025



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## Meeting Program

### Wednesday 4th June 2025

14h00 –  
17h00

Board Meeting

17h30 –  
20h00

Registration

18h00 –  
21h00

Welcome Reception

### Thursday 5th June 2025

08h30 –  
09h00

Registration

08h45 –  
09h00

Opening Ceremony & Welcome Addresses

09h00 –  
09h45

#### **Invited Lecture**

##### **Advances & Future Perspectives in Hair Testing**

*Professor Dimitri Gerostamoulos*

○ *Department of Forensic Medicine, Monash University & Victorian Institute of Forensic Medicine, Victoria, Australia.*

○ *Past President of The International Association of Forensic Toxicologists – TIAFT*

09h45 –  
10h00

#### **Major Challenges in Hair Testing**

Use the QR code provided to anonymously submit your opinion on the three major challenges in hair testing

10h00 –  
11h00

## Session 1: Oral Presentations

Moderators:

- O1.False-positive EtG immunoassay screening after exposure to aliphatic alcohols. LC-HRAM-Orbitrap-MS detection of C1-C6 EtG homologs in urine, chest and pubic hair samples**  
*Camilla Vigato, Flavio Zancanaro, Novella Ghezzi, Giampietro Frison<sup>1</sup>*
- O2.THc-COOH levels in hair as biomarker of chronic cannabis use, and correlation with self-reported extent of use**  
*Vevelstad, M, Olsen, LH, Fosen, JT, Øiestad, ÅML, Krpo, M, Gudrun Høiseth*
- O3.Exploring the potential of steroid and endocannabinoid analysis in hair for assessing long-term stress exposure in various clinical settings**  
*Clarissa D. Voegel, Lilian von Werd, Stefan Yu Bögli, Bea Latal, Emanuela Keller, Boris B. Quednow, Melanie Ehrler, Thomas Kraemer, Tina M. Binz*
- O4.Comparative Analysis of Tenofovir and Emtricitabine in Hair: Manual Hand Cutting Versus Pulverization Techniques**  
*Hideaki Okochi, Leenie Chen, Alexander Louie, Leslie Z. Benet, and Monica Gandhi*
- O5.Challenges in the Interpretation of Isolated THc-COOH Detection in Hair: Forensic and Clinical Implications**  
*Maria del Mar Ramirez Fernandez, Vincent di Fazio, Vincent Cirimele, Werner Jacobs, Sarah M.R. Wille*

11h00 –  
11h45

Coffee Break

11h45 –  
13h00

## Sponsor Presentation

- O6.Optimised and Efficient SPE Workflow for Low Level Detection of the Alcohol Marker EtG in Hair via UPLC-MS/MS Analysis**  
*Lee Williams, Zainab Khan, Lucy Richards, Thomas Smith, Adam Senior, Helen Lodder, Russell Parry, Geoff Davies, Alan Edgington, Charlotte Hayes, Claire Desbrow & Dan Menasco.*

## Session 2: Oral Presentations

Moderators:

- O7.Influence of different washing hair procedures in the quantitative determination of THc and THCCOOH**  
*Valentina Martini, Simone Cozzolino, Cristiana Stramesi, Claudia Vignali, Stefania Ortu, Paolo Franceschini, Ilaria Baudone, Gianfranco Petriccioni, Isa Mavi Sbarbaro, Cinzia Corsini, Paolo Bucchioni, Luca Morini*
- O8.Hair analysis of new psychoactive substances: investigating reporting thresholds and metabolite detection challenges**  
*Hooi Yan Moy, Siti Aisyah Jamil*

	<p><b>O9.Hair analysis by high-resolution mass spectrometry for NPS detection: focusing on fragmentation profiling and metabolic pathway prediction. Data processing strategies</b>  <i>José Manuel Matey, Luis Manuel Menéndez-Quintanal, Sergio Velazquez Romanos, Begoña Bravo Serrano</i></p> <p><b>O10.Evaluation of the oxidative melanin markers PTCA and PTeCA in hair: LC-MS/MS method development and application in authentic hair samples</b>  <i>Christoph Leu, Thomas Kraemer, Tina M. Binz</i></p> <p><b>O11.Sleeping your way through success: Drug-facilitated crime in the workplace</b>  <i>Salomé Riess, Aurélie Muckensturm; Ruben Goncalves; Olivier Roussel; Marjorie Chèze; Vincent Cirimele</i></p>
<b>13h00 – 14h30</b>	<b>Lunch</b>
<b>14h30 – 15h30</b>	<p><b>Session 3: Oral Presentations</b>  <b>Moderators:</b></p> <p><b>O12.Development of a rapid method for PFAS determination in human hair</b>  <i>Justin Allen, Ashef Ameer, Teeshavi Acosta, Marta Concheiro, Ana Miguel Fonseca Pego.</i></p> <p><b>O13.Chemical carcinogens in children living in Luxembourg</b>  <i>Franco Catuogno, Alba Iglesias-González, Brice M. R. Appenzeller</i></p> <p><b>O14.Comprehensive analysis, comprehensive understanding: the benefit of widening the scope to uncover the complexity of human chemical exposome and tailor personalized risk assessment</b>  <i>Alba Iglesias-Gonzalez &amp; Brice MR Appenzeller</i></p> <p><b>O15.Influence of parental socioeconomic status on children's chemical exposure disparities: The role of professional occupation in Luxembourg using hair analysis</b>  <i>Alba Iglesias-González, Paul Palazzi, Franco Catuogno, Brice M.R. Appenzeller</i></p> <p><b>O16.Influence of permanent chemical straightening on the interpretation of endogenous GHB and alprazolam hair results</b>  <i>Miriam Blanco-Ces, Ana de-Castro-Ríos, Angelines Cruz, Ángela López-Rabuñal, María Cobo-Golpe, Manuel López-Rivadulla, Elena Lendoiro</i></p>
<b>15h30 – 16h00</b>	<b>Coffee Break</b>

16h00 –  
17h00

## Session 4: Oral Presentations

Moderators:

**O17.Evaluation of PTeCA (1-H-pyrrole-2,3,4,5-tetracarboxylic acid) in *in vivo* and *in vitro* hair matrix as a marker of oxidative cosmetic treatment**

S. Casati, A. Ravelli, R. F. Bergamaschi, A. Magliocco, M. Orioli,  
G.Roda, A. Battistini

**O18.Evaluating the Presence of Dehydronorketamine in the Hair as a Marker for Ketamine Use**

Zhang HuiFen Hannah, Yong Ching Yee Christy, Chan Si Jia, Moy Hooi Yan, Lui Chi Pang

**O19.Hair Analysis in Psychiatric Patients**

Donata Favretto, Clara Cestonaro, Alice Costantini

**O20.Analysis of Drugs of Abuse and Contaminants in Individuals Under Drug Surveillance Programs: A Study in Hair Samples**

A.Y. Simão, P. Y. Tokuyama, G. Zampieri, V. Rocha, C. Madruga, K. Isicawa, L. S. Cidade, K. R. Almeida, N. R. da Silva, M. Barroso, M. Andraus, E. Gallardo

**O21.Metabolomic Analysis of Hair from Heroin and Methamphetamine Users**

Zhang Wenji, Xia Xinxin, Zhang ting

## Posters Presentations.

**P1.Comparison of a semi-quantitative immunoenzymatic method and confirmation LC-MS/MS method for the extraction of the EtG from hair**

Giulia Pagano , Giulia Stocchero, Antonio Cambria, Cambria Antonio, Giovanni Michele Marchio, Flora Donini<sup>1</sup>, Francesco Ingenito, Lucia Bertoldi, Cristiana Fait, Lucia Pecoraro, Adriano Anesi , Alberto Salomone, Donata Favretto

**P2.Hair of the herd: cattle hair as a sentinel for human exposure to pesticides**

Ashna Lallmahomed, Christine Monfort, François Beaudeau, Laura Le Martelot, Justine Kergavarat, Fabien Mercier, Cécile Chevrier, Arthur David

**P3.Analysis of D9-tetrahydrocannabinol, cannabidiol, cannabinol and 11-nor-D9-tetrahydrocannabinol-9-carboxylic acid in hair by LC-MS/MS: combination of MRM and MS3 modes**

Burgueño, M José; Ayuso-Tejedor, Sara; Quintela, Oscar; Bueno, José R; Baeza, Irene; Megía, Carmen; Díaz, Rocío; Bravo, Begoña.

**P4.The Detection of  $\Delta^9$ -THC,  $\Delta^8$ -THC,  $\Delta^{10}$ -THC and CBD in Keratinized Specimens**

Amy Racines, Katie Lea, Donna Coy, Joseph Jones, Mary Jones

**P5.Method Development Strategies for Low Level Detection of EtG in Hair Using UPLC-MS/MS Analysis**

Lee Williams, Zainab Khan, Lucy Richards, Thomas Smith, Adam Senior, Helen Lodder, Russell Parry, Geoff Davies, Alan Edgington, Charlotte Hayes, Claire Desbrow & Dan Menasco.

**P6.Hair analysis as the sole method to confirm methamphetamine use in a stroke-related death case**

Serena Mestria, Giulia Biosa, Sara Odoardi, Chiara Capriotti, Valeria Valentini, Sabina Strano Rossi

**P7.Evaluation of Methadone (MD) to 2-Ethylidene-1,5-dimethyl-3,3-diphenylpyrrolidine (EDDP) Ratio Variation in Segmental Head Hair Analysis in Family Law Cases**

Eleanor I Mille<sup>1</sup>, Peter D Maskell, David Nicholson and Vincent Cirimele

**P8.Only One Step: A Novel Refrigerator-Cooled Homogenization Protocol Enhancing Efficiency and Robustness in Hair Drug Testing**

Ping Xiang, Hang Chen, Xin Wang

**P9.Quantitative Analysis of Cannabinoids in Hair Using Liquid-Liquid Extraction and LC-MS/MS**

Mónica Antunes, Susana Simões, Suzana Fonseca, João Franco, Eugenia Gallardo, Mário Barroso

**P10.Development and validation of UHPLC-MS/MS method for the quantification of 12 nitazenes, bupropion, fentanyl, xylazine and 4-hydroxy-xylazine in hair**

Marta Massano, Consuelo Bridda, Enrico Gerace, Alberto Salomone

**P11.Comprehensive Evaluation of Cocaine and its Hydroxy Metabolites in Seized Cocaine and a Large Cohort of Hair Samples**

Milena M. Madry, Teresa Denifle, Markus R. Baumgartner, Christian Bogdal, Thomas Kraemer, Tina M. Binz

**P12.Retrospective Analysis of Hair Samples Positive for Drugs in Pakistan**

Humera Shafi Makhdoom, Zeerak Abbas, Nadeem Ul Hassan Khan, Mehak Naveed, Omar Chughtai, Akhtar Sohail Chughtai

**P13.Development of a Comprehensive Chromatographic Method for the Detection of Narcotics and Psychoactive Substances in Hair and Biological Matrices**

C.Pareja-Torres, T. Huertas, A. Pino-Tarragona, A. González-Padrón

**P14.Extraction and Analysis of a Comprehensive Quantitative Drug Panel in Hair Samples by UPLC-MS/MS for Forensic Toxicology**

Emily Lee, Nayan Mistry, Jonathan P Danaceau and Lisa J Calton

**P15.Pesticide Contamination in the Hair of Children from Colonia San Juan, a Rural Community in Paraguay**

Stela Benitez Leite, Alba Iglesias-Gonzalez, Mirta Noemí Mesquita, María Luisa Macchi, Robin Mesnage, Brice M.R. Appenzeller.

**P16.Evaluation and comparison of sensitivity of alcohol biomarkers PETH, EtG and EtPa in civil cases in England 2022–2023**

Sharnette Ashiru, Jamie Banham, Ethan Webster, Lili Saskoy, Gavin Trotter, Mathew Wade, Brian Rooney.

**P17.Key Role of Keratin Matrix in Toxicological Analysis to Determine the Cause of Death of a Poly-Drug Addict**

*Binda Maddalena, Angeli Ilaria, Di Francesco Carlotta, Meda Valentina, Minoli Mauro, Battistini Alessio, Roda Gabriella*

**P18.Correlation between alcohol consumption and phosphatidylethanol detection by both venous and dry blood spot testing**

*A. John, D. Muldoon*

**P19.Positivity rates and concentration levels of drugs of abuse and ethylglucuronide (EtG) detected in the hair of subjects undergoing license regranting**

*Giulia Biosa, Serena Mestria, Sara Odoardi, Valeria Valentini<sup>1</sup>, Chiara Capriotti, Sabina Strano Rossi*

**P20.Hair Growth Rate and Drug Deposition Correlation across Ethnicities**

*Muhammad Imran, Nadeem Ul Hassan Khan*

**P21.Retrospective study of poly-drug and alcohol use in the UK (2024 - 2025)**

*Abduselam Mohammed, Jayne Hazon, Robert Bradley*

**P22.Experimental-based evaluation of inter- and intra-individual variability of endogenous hair GHB**

*Murari Matilde, Rinaldi Romolo, Casini Carlotta, Bortolotti Federica, Gottardo Rossella*

**P23.Increased prevalence of  $\alpha$ -PHP and  $\alpha$ -PiHP as drug of abuse in chemsex**

*Marta Vázquez, Alberto Córdoba, Marta Sánchez, Tamara Khazooz and Nuria Sanvicens.*

**P24. Drugs of abuse in hair, a straightforward chromatographic method using the MassTox® kit from Chromsystems**

*Delphine Cappelle, Evi van den Steen, Nele Pincé, Lisbeth Patteet*

**19h00 –  
22h30**

**Gala Dinner at The Royal Society**

## Friday 6th June

**09h30 – 10h30**

**Session 5: Oral Presentations**

**Moderators:**

**O22.A Statistical Review of Results Obtained from Casework Samples Against Declared Drug Use**

*D. Muldoon; A. John*

**O23.Interpretation criteria in hair analysis – Urgent need for education and uniform implementation of the consensus on drugs of abuse testing**

*Van Uytvanghe Katleen, Stove Christophe*

	<p><b>O24.The LOD and LOQ Dilemma in Human Biomonitoring Data Reporting: Different Needs for Different Fields</b> <i>Linda R Macheka, Brice MR Appenzeller</i></p> <p><b>O25.Can we measure a single dose of antihistamine in hair after intake?</b> <i>Jan Bilek, Marie Katrine Klose Nielsen, Robert Kronstrand, Sys Stybe Johansen</i></p> <p><b>O26.Recreational Drug Use at a Music Festival: A Dual Approach Using Hair Biomarkers and Participants' Feedback</b> <i>Ana Simão, Tiago Rosado, Mário Barroso, Maristela Andraus, Eugenia Gallardo</i></p>
<b>10h30– 11h30</b>	<b>Coffee Break</b>
<b>11h30 – 12h30</b>	<p><b>Session 6: Oral Presentations</b></p> <p><b>Moderators:</b></p> <p><b>O27.Hair as a valuable biospecimen for hormone assessment: Inter-relationships across biobehavioral biomarkers</b> <i>Allissa L. Van Steenis, Wen Wang, Brandon L. Smith, Elizabeth A. Shirtcliff,</i></p> <p><b>O28.Hair as a Biomarker of Cumulative Sex Hormone Exposure: Evidence from Young Adult Women</b> <i>Wen Wang, Allissa Van Steenis, Jeff Kiesner, Elizabeth A Shirtcliff</i></p> <p><b>O29.The Effect of Dye Colour on Illicit Drug and Metabolite Levels in Chemically Treated Hair</b> <i>Amy Duda</i></p> <p><b>O30. TBC</b></p> <p><b>Sponsor Presentation</b></p> <p><b>O31. TBC</b></p>
<b>12h30 – 14h00</b>	<b>Lunch</b>
<b>14h00 – 14h30</b>	<p><b>Major Challenges in Hair Testing – Open Discussion</b></p> <p><b>Moderator: Robert Kronstrand</b></p> <p>This session will present a synthesis of the key issues identified by participants during the conference, focusing on the major challenges facing the field of hair testing.</p>



	<p>The discussion aims to further develop these points and explore potential future directions for research and application.</p> <p>The session will serve as a platform to consolidate ideas, foster collaboration, and guide strategic priorities for the SoHT and the broader scientific community.</p>
<b>14h30 – 14h45</b>	<b>Best poster and oral presentation awards</b>
<b>14h45 – 15h00</b>	<b>Short Coffee Break</b>
<b>15h00 – 16h30</b>	<b>SoHT General Assembly - SoHT Members only</b> <ul style="list-style-type: none"> <li>• Election of the board</li> <li>• New Board Meeting</li> </ul>
<b>17h00 – 23h00</b>	<b>Farwell Drinks Pub – McMullen Brewing</b> <p>Join us for a relaxed farewell gathering to toast the end of the meeting. Enjoy local brews, good company, and informal conversations to wrap up the event on a warm and convivial note.</p> <p>7 minutes walking from the Royal Society</p>

